

SUPERIOR AIRCRAFT COMPANY

MODELS: Superior Culver Army PQ-14A, PQ-14B, YPQ-14A, YPQ-14B (Navy) TD2C1
(Approved 12/16/47)

SPECIFICATION NUMBER: L-28-2

(Eligible for Certification in Limited Category only.)

(Holder of Limited Type Certificate: N.A. Kalt, Dallas, TX)

Engine	Franklin O-300-11
Fuel	Grade 100/130
Engine limits	Maximum, except take-off (Full throttle) (17,000 ft.) 3200 rpm (90 hp)

	(Full throttle) (7,500 ft.) 3200 rpm (130 hp)
	(22.3 in.Hg.) (Sea level) 3200 rpm (130 hp)
	(Full throttle) (Sea level) 2930 rpm (155 hp)
	Take-off (one minute)
	(23.3 in.Hg.) 3200 rpm (130 hp)
	(Full throttle) 2930 rpm (155 hp)
Propeller	Sensenich, fixed pitch wood, Model 66CA63.
	Diameter 66 inches.
Airspeed limits	(See NOTE 2) Glide or dive - 234 mph
Maximum gross weight	1820 lbs.
C.G. range	26.07 inches (19.8 percent MAC) to 27.23 inches
	(22.4 percent MAC) gear down
Datum	Forward face of firewall bulkhead
MAC	44.75 inches L.E. MAC 17.2 inches
Other operating	
limitations	Army T.O. 09-5FC-1 (1/31/46)
Certification basis	Limited Type Certificate No. 28 (CAR 9 effective 11/21/46)
Production basis	None may be produced under this approval
Export eligibility	Not eligible for a Certificate of Airworthiness for Export

EQUIPMENT:

No equipment other than engines and propellers are specified. However, such equipment as required by Civil Air Regulations Part 43.30 for the particular operation authorized for NC aircraft must be installed. Also, any additional equipment necessary for the proper operation of the aircraft.

In addition, the aircraft may incorporate such military equipment (except armament) as was originally incorporated in the type for military or naval service. Additional equipment may be installed as can be substantiated on the basis that it presents no obvious hazard to safety.

NOTE 1. Weight and Balance Report including list of equipment included in the certificated empty weight must be submitted for each aircraft. Army or Navy weight records in current condition may be submitted in lieu of an actual weight. The equipment list need include no more than the following:

- (a) Required equipment as defined under "Equipment" above.
- (b) Additional items as may be reasonably considered removable and are so located or of such weight that their removal or addition could noticeably affect the weight and balance of the aircraft. Items built into the aircraft structure need not be listed. The equipment list must be prepared by the applicant for the approval of the certificating C.A.A. representative, and in such form that it can be attached to the C.A.A. Operation Limitations.

NOTE 2. The following placards must be prominently displayed in the positions indicated:

- (a) In full view of passengers: "This is a military type aircraft and under the Civil Air Regulations shall not be used for the carriage of passengers or cargo for compensation or hire."
- (b) In the cockpit in full view of the pilot:
Wing Flaps - Do not lower above 117 mph.
Landing Gear - Do not lower above 117 mph.
All acrobatics except stalls prohibited.

NOTE 3. The following statement must appear on the Operation Limitations: "This airplane must be operated at all times within the limitations set forth in the Army Technical Order No. 09-5FC-1, 1/31/46, except for limitations specifically called out in Aircraft Specification AI-28 in which case the values given in the Specification must be observed. A copy of Army Technical Order 09-5FC-1 and Aircraft Specification AI-28 must be carried during flight." In all cases it will be the responsibility of the applicant to secure copies of the Technical Orders. The C.A.A. does not have these documents available for distribution.

NOTE 4. If any repairs or modifications are made prior to and/or subsequent to NL certification, it is the responsibility of the owner to furnish sufficient evidence to a C.A.A. representative to show that the modified airplane maintains the same degree of airworthiness as the original. The C.A.A. can give no technical assistance on such matters since complete structural data for NL aircraft are not required by Part 9 and therefore are not available in the C.A.A.

NOTE 5. For certification for night flying the following must be accomplished:

- (a) Replace the wing position lights with certificated units or satisfactorily modify the lights if pertinent. Note: Type A-9 wing position lights (AN-3033-5 through -8) may be satisfactorily modified by painting the inside frosted portion of the cover black. Type A-9 (AN-3033-1 through -4) are satisfactory without modification.
- (b) Replace the tail light with a certificated unit.

- (c) If "Bright and Dim" conditions are provided for the position lights, either the resistors should be disconnected from the circuits and a single-pole-single-throw switch should be used to replace the two single-pole-double-throw switches presently installed for wing-tip and tail lights, or the switches should be placarded to indicate that only the "bright condition" should be used. In either case the tail light and wing-tip lights should operate on one switch.

No original NL airworthiness certificates may be issued after 8/31/48. The list of mandatory changes required prior to original certification may be obtained from CAA Aircraft Service, Washington, D.C. Attn: A-298.